

Spark Plus Biotech Day Investor Presentation

SYDNEY Australia, 24 February 2023: Recce Pharmaceuticals Ltd (**ASX:RCE**, **FSE:R9Q**) (the **Company**), the Company developing a New Class of Synthetic Anti-infectives, is pleased to confirm its participation in Spark Plus's Biotech Day on Friday, 24 February 2023.

The event will feature presentations to investors from leading ASX-listed biotech companies. Recce Pharmaceuticals CEO, James Graham will be giving a 15-minute company presentation.



Please find provided below a copy of the presentation slides to be presented by James Graham.

This announcement has been approved for release by Recce Pharmaceuticals Board.



ASX: RCE, FSE: R9Q



Corporate Presentation



Disclaimer

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Board Structure



Dr John Prendergast Executive Chairman (Shares: 250,000) (Options: 2,175,000)



James Graham
Chief Executive Officer
(Shares: 6,031,932 – 3.39%)
(Options: 2,250,000)



Michele Dilizia
Chief Scientific Officer
(Shares: 3,543,485 - 2.0%)
(Options: 1,500,000)



Justin Ward
Executive Director &
Principal Quality Chemist
(Shares: 158,966)
(Options: 600,000)



Alistair McKeough Non-Executive Director (Shares: 25,000) (Options: 1,125,000)



Dr Alan Dunton Non-Executive Director (Shares: 60,000) (Options: 1,125,000)



Justin Reynolds
Outsourced CFO



Maggie Niewidok Company Secretary



A Versatile Technology Platform

- Biotech company developing Anti-infectives targeting both bacterial and viral indications
- Strong IP and own manufacturing capability
- Qualified Infectious Disease Product designation
 - 10 years market exclusivity plus fast track approval*
- Versatile delivery platform oral, intravenous and topical formulations
- Designed to safely provide treatment without developing resistance over time
- Multiple infectious disease opportunities with RECCE® 327





Strong Pipeline

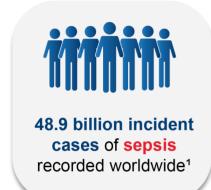
Over Various Indications and Upcoming Inflection Points

Asset and Route of Administration	Indications	Discovery	Pre-Clinical	Phase I	Phase II	Phase III	Market
R327 Intravenous*	Serious/life threatening bacterial infections including sepsis Urinary tract infections including urosepsis Multidose, early stage sepsis efficacy study						
R327 Topical*	Wound infections including infected burns Diabetic Foot Ulcers						
RCE Compounds*	Mycobacterium abscessus pre-clinical program Bacterial Sinusitis pre-clinical program Additional TBA pre-clinical program						
R327 Nasal**	COVID & Influenza						
R529 Intravenous & Intranasal**	COVID						

^{*}Anti-bacterial program

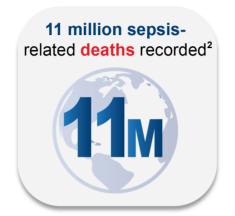
^{**}Anti-viral program

Sepsis – it's a big problem!



What is Sepsis?

Sepsis is a life-threatening inflammatory response to infection that has spread in the body.



Economic Impact

Is the most expensive condition to treat in the last 8 years⁵.

Double the average cost per stay across all other conditions⁵.



Social Impact

Kills more people in the US than prostate, breast cancer and HIV/AIDS combined⁴.

Currently no drug therapies specifically for the treatment of sepsis⁶.



Sepsis Patient Journey



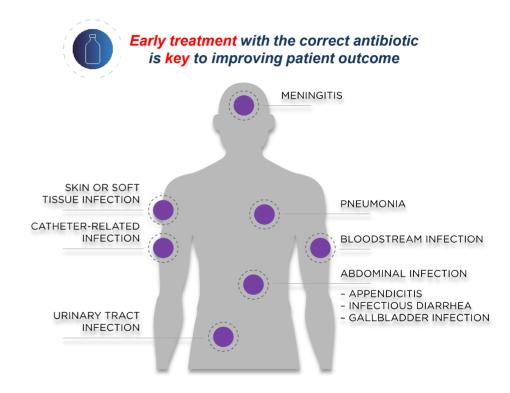
Patient Presents at the Hospital

- 1/3 of patients present non-specific symptoms, leading to delayed treatment and high mortality rate.
- Mortality from sepsis increases by as much as 8% for every hour that treatment is delayed.
- Cost of sepsis care for inpatient admissions and skilled nursing facility: in-patient rehab medical treatment centre admissions was more than USD \$62bn/year (USD \$170m/day).



Current Treatment Paradigm

- Introducing broad-spectrum antibiotic (s)
- Running antibiograms
- Adjusting antibiotics based on antibiogram results





The Need for a New Class of Antibiotics: Synthetic Anti-Infectives

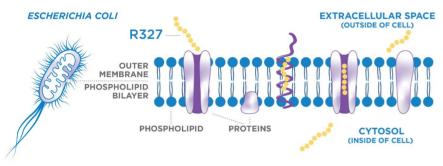


- NO pre-formed natural superbugs.
 - Entirely **man-made** and designed with purpose.
 - Universal Mechanism of Action does not succumb to resistance.
 - Broad Spectrum capability and maintains its activity even with repeated use.
 - **Empowers clinicians** to confidently and quickly administer an effective antibiotic at first patient presentation.
- On-track to be the only global clinical stage company whose drug is shown to be efficacious against the full suite of ESKAPE pathogens.

Independent Study Undertaken on R327 MoA¹

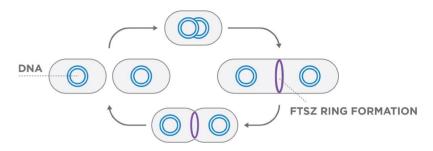
By Leading Experts in Bacterial MoA Analysis

Stage 1



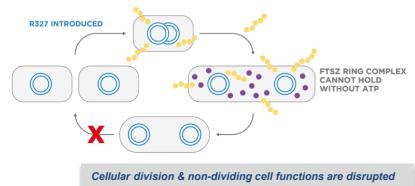
R327 permeabilizes cell membrane and enters the cell

Stage 2

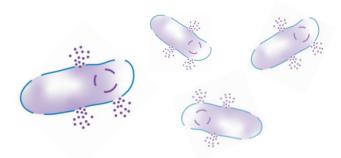


R327 interrupts bacterial cellular energetics via ATP Synthesis

Stage 3



Stage 4



R327 is rapidly and irreversibly bactericidal - at high concentrations causes cell lysis

RECCE® 327 Multi-Layered Mechanism of Action¹



R327 rapidly & irreversibly shuts down cellular energetics (adenosine triphosphate (ATP) production) – primary MoA.



R327 affects the assembly of bacterial cell division complex, components that require cellular energy to remain assembled, confirming its ability to disrupt cellular bioenergetics.



R327 results in the decreased formation of the bacterial cell division complex into ring-like structures (Z-rings) in a concentration dependent manner.



R327 permeabilises the cell membrane/alters the integrity of the outer membrane of *E. coli* cells – intended activity without toxicity.



At higher concentrations and subsequent to ATP shut down cell lysis can occur as a further MoA (bacterial bursting due to their uniquely high internal pressure).



R327 rapidly and irreversibly bactericidal to slow-growing quiescent or stationary phase *E. coli* cells in addition to actively dividing *E. coli* cells.



Within a minute, the highest concentration of R327 used, 5x MIC, was observed to reduce viable cell counts reported as cell forming units per millilitre of culture (CFU/mI) 100-fold (>1x10⁷ to 1x10⁵ at timepoint 0).



Current antibiotics rarely retain bactericidal activities against non-dividing or stationary phase bacterial cells; however, R327 showed remarkable activity against slow-growing bacteria, indicating potential antibacterial activity in biofilms.



In comparison to ampicillin and ciprofloxacin, R327 is able to outperform both of these antibiotics in bactericidal activity (measured by viable cell counts) against stationary cells.

RECCE® 327 Activity Against Escherichia coli

 E. coli grows fast.
 Eukaryotic cells healthy and not affected.

- R327 at 3,000 ppm shown to be highly effective against E. coli without affecting growing, healthy eukaryotic cells.
- R327 rapidly and irreversibly shuts down the ATP in E. coli, not allowing it to divide and grow.







RECCE® 327 Activity Against Staphylococcus aureus

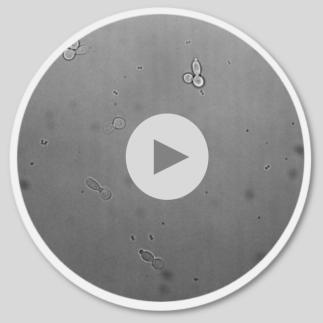
• S. aureus bacterial growth slower than E. coli, not affecting eukaryotic cells.

- R327 at 2,300 ppm shows to be highly effective against S. aureus without affecting growing, healthy eukaryotic cells.
- R327 rapidly and irreversibly shuts down the ATP in S. aureus, not allowing it to divide and grow.

Without R327



R327 (2,300 ppm)



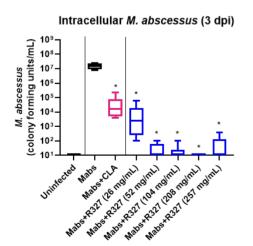




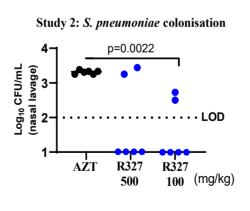
Pre-Clinical Study Outlook

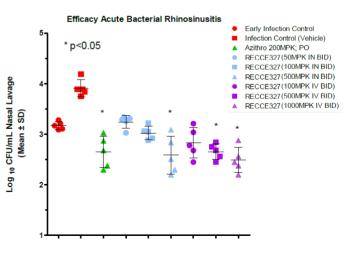
- Recce's new Anti-Infective Research (AIR) Unit: Fit-for-purpose laboratory space
 - Located within Murdoch Children's Research Institute
 - Recce will streamline ongoing pre-clinical programs and explore new research development opportunities
 - Dedicated Murdoch Children's team with access to infectious disease and other expertise
- Mechanism of Action studies
 - Results confirm that R327 is broad spectrum, bactericidal, effective against growing and non-growing cells

Mycobacterium abscessus Data



Bacterial Sinusitis Data





Bacterial Sinusitis

Dr Philip Sutton's Pre-Clinical Update

Phase I Human Clinical Trial

- Study to assess IV infusion of RECCE® 327 in healthy male subjects as a single ascending dose.
- Randomized, double-blind, placebo-controlled, safety, tolerability and pharmacokinetics study.
- Single dose of a 1-hour via IV infusion at a uniform rate in hospital setting.
- Primary endpoint: vital signs, 12-lead ECG parameters, clinical chemistry, hematology, and urinalysis.

Complete



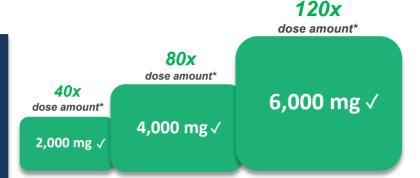
*Dose increase fold based off 50mg



Phase I Human Clinical Trial – 'High Dose'

Why 6,000mg (R327) over 1 hour infusion?

- Study objectives **achieved** Phase II preparations are underway
- R327 dosing broadly in efficacy range based on animal models
 Phase II (efficacy) to determine.
- Phase I (IV Safety/Tolerability) data sets opportunity for multiple Phase II (efficacy) study potential.
- Data unblinding complete and packaging submission to TGA including request for publication – Q1 2023

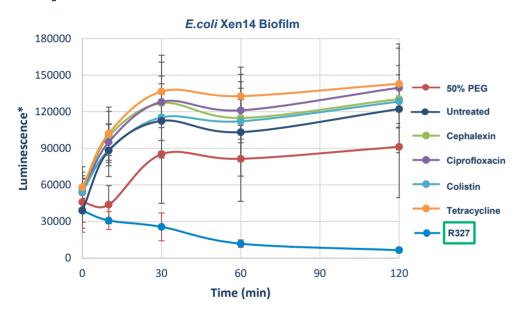


As a result of Phase I achievements, Phase II preparations are underway in UTI, Kidney Infection Urosepsis and Sepsis

*Dose increase fold based off 50mg



R327 faster acting than existing antibiotics – no prolonged exposure needed



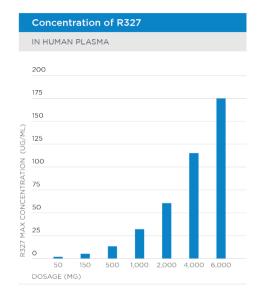
- R327 kills pathogenic bacteria at a faster rate
- R327 designed to work faster than all existing antibiotics, reinforced by MoA work undertaken by experts in their field.

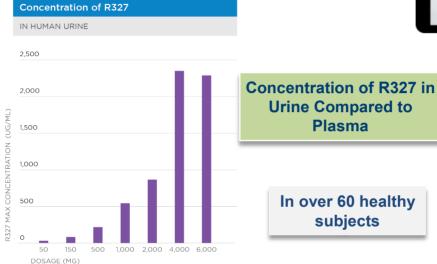
"R327 kills bacteria in conditions where other antibiotics are ineffective."

- Marc Sharp, PhD, Chief Scientific Officer, Linnaeus Bioscience

R327 is faster-acting against bacteria than other antibiotics – works quickly, without prolonged cellular exposure times required of other antibiotics (extended exposures commonly associated with systemic toxicity).

Reason for Optimism in Treating UTI/Sepsis







Dr Alan Dunton's Clinical Update

Ratio

Urine/Plasma -

15x

13x

15x 17x

14x

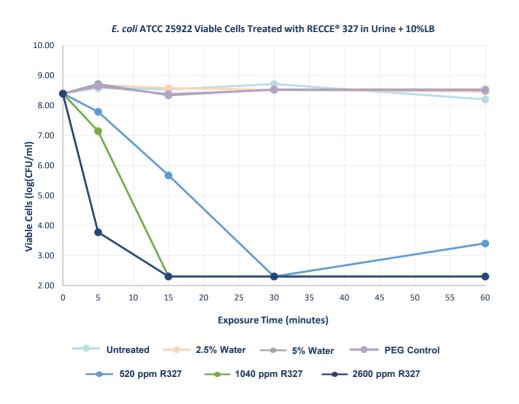
20x 13x

- R327 primary route of elimination appears to be through the kidney to the ureters and bladder.
- High concentrations of R327 noted in the urine of Phase I healthy subjects.
- Insight consistent with pre-clinical in-vivo kidney and UTI bacterial infection studies.

- Opportunities for therapeutic in array of UTIs (uncomplicated UTI - single dose, complicated UTI, recurrent UTI, treatment resistant etc).
- Suggests broader anti-infective treatment model in pre-sepsis.



RECCE® 327 Kills Quickly in the Urine



- R327 in the presence of human urine was able to have a fast (near minutes effect against *E. coli* and irreversible
- Bacteria could not be 'washed out' and regrown
- R327 capability starting from comparatively low concentrations
- Achieved 6-log reduction in viable cell count

Understanding logs (example of a small colony of 1 million MRSA bacteria)* A 1-log kill reduces the colony to 100,000 MRSA bacteria after a 90% reduction A 2-log kill reduces the colony to 10,000 bacteria after a 99% reduction A 3-log kill reduces the colony to 1,000 bacteria after a 99.9% reduction A 4-log kill reduces the colony to 100 bacteria after a 99.99% reduction A 5-log kill reduces the colony to 10 bacteria after a 99.999% reduction A 6-log kill reduces the colony to 1 MRSA bacterium after a 99.9999% reduction



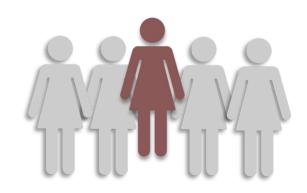


Background on UTIs

- Urinary tract infection (UTI) is one of the most common infectious diseases
- The most common pathogen causing UTIs is Escherichia coli (E. coli) with 62%
 - The resistance among the isolates of *E. coli* are: ampicillin (86%), amoxicillin (76%), tetracycline (71%), trimethoprim-sulfamethoxazole (64%), cephalexin (61%), and cefalotin (60%)
- Globally, more than 404.6 million individuals had UTIs in 2019
 - USD \$6 billion dollars in direct health care expenditure
 - Previous years have demonstrated the likelihood of antibiotics killing most UTIs is rapidly dropping



One in three uncomplicated UTIs in young healthy women are Bactrim-resistant



One in five are resistant to five other common antibiotics.



Topical RECCE® 327 – Phase I/II

Patient examples from ongoing Burn Wound trial

- Patients suffered major burn injury.
- Multiple bacterial species in and surrounding wound.
- Growth swabs with organisms including pathogens from the ESKAPE group of bacteria.
- Post R327 treatment: healthy skin growth return, reduced swelling and infection, indications of tissue penetration to underlying infection.
- Building upon the success of these results, the Company has built out its topical treatment programs to include a new Phase II clinical study for Diabetic Foot Ulcer infections.
- Domestic and International interest in study and study site expansion progressing, with expected advancement Q1 2023



Pre-treatment, significant bacterial infection





Post R327 treatment





Phase I/II Diabetic Foot Ulcer (DFU) Clinical Trial



Clinical Trial Overview

- Human Research Ethics approval received
- Phase I/II to assess safety and efficacy of R327 on mild skin and soft tissue diabetic foot infections.
- Clinical trial to start at South West Sydney
 Limb Preservation and Wound Research
 Unit, located at the Ingham Institute of
 Medical Research.
- Unit selected for its innovative and groundbreaking focus on wounds of the limbs and limb loss, an under-researched area in Australian healthcare.



Market Opportunity

- The total medical cost for treating diabetic foot diseases in the United States is US \$9-13 billion every year¹.
- Studies in the US have shown between 14-24% percent of patients with diabetes who develop a foot ulcer will require an amputation, and foot ulceration precedes 85% of diabetes-related amputations².
- Sydney's South West also has one of the highest prevalence rates of diabetes in NSW and complications from this disease can significantly impact people's quality of life.





Patents

Four families across all major markets

Filed	Patent Family 1	Expiry	Patent Family 2	Expiry	Patent Family 3	Expiry
Australia	✓	2028	✓	2037	Accepted	2037
USA	✓	2029	✓	2037	✓	2037
Europe	✓	2028	✓	2037	✓	2037
Germany	✓	2028	✓	2037	✓	2037
Spain	✓	2028	✓	2037	✓	2037
France	✓	2029	✓	2037	✓	2037
UK	✓	2028	✓	2037	✓	2037
Italy	✓	2028	✓	2037	✓	2037
Sweden	✓	2028	✓	2037	✓	2037
Japan	✓	2028	✓	2037	✓	2037
China	✓	2028	Pending	2037	✓	2037
HK	Pending	2028	Pending	2037	✓	2037

Family 1 group relates to the Company's Unique and Highly Economical Manufacturing Process and use of the Polymer in Treatment of Diseases.

Family 2 relates to the Method of Manufacture, Administration and Application to Treat a Broad Range of Common Human Infections.

Family 3 relates to a Method of Treatment of a Broad Range of Viral Infections, particularly Parenteral Viral Infection.

Recce's patent portfolio contains over 40 patents and patent applications in the world's major markets.

Country	Title	Case_Status	Grant_Date		Family	
Australia	ANTI-MICROBIAL POLYMERS AND THEIR	Granted	25/08/2011	Recce Pharmaceuticals Ltd	Family 1	
	COMPOSITIONS			Dance Dharman with the Late	Familia 4	
China	ANTI-MICROBIAL POLYMERS AND THEIR COMPOSITIONS	Granted	25/11/2015	Recce Pharmaceuticals Ltd	Family 1	
France	ANTI-MICROBIAL POLYMERS AND THEIR COMPOSITIONS	Granted	7/10/2015	Recce Pharmaceuticals Ltd	Family 1	
Germany	ANTI-MICROBIAL POLYMERS AND THEIR COMPOSITIONS	Granted	7/10/2015	Recce Pharmaceuticals Ltd	Family 1	
	ANTI-MICROBIAL POLYMERS AND THEIR			Recce Pharmaceuticals Ltd	Family 1	
Italy	COMPOSITIONS	Granted	7/10/2015			
Japan	ANTI-MICROBIAL POLYMERS AND THEIR COMPOSITIONS	Granted	3/10/2014	Recce Pharmaceuticals Ltd	Family 1	
Spain	ANTI-MICROBIAL POLYMERS AND THEIR COMPOSITIONS	Granted	7/10/2015	Recce Pharmaceuticals Ltd	Family 1	
0	ANTI-MICROBIAL POLYMERS AND THEIR	0	7/40/0045	Recce Pharmaceuticals Ltd	Family 1	
Sweden	COMPOSITIONS	Granted	7/10/2015			
UK	ANTI-MICROBIAL POLYMERS AND THEIR COMPOSITIONS	Granted	7/10/2015	Recce Pharmaceuticals Ltd	Family 1	
USA	ANTI-MICROBIAL POLYMERS AND THEIR COMPOSITIONS	Granted	1/09/2015 Recce Pharmaceuticals		Family 1	
Australia	COPOLYMER AND METHOD FOR	Granted	8/11/2018	Recce Pharmaceuticals Ltd	,	
	TREATMENT OF BACTERIAL INFECTION		6/11/2018			
China	COPOLYMER AND METHOD FOR TREATMENT OF BACTERIAL INFECTION	Response Lodged		Recce Pharmaceuticals Ltd	Family 2	
France	COPOLYMER AND METHOD FOR	COPOLYMER AND METHOD FOR Granted 20/09/201		Recce Pharmaceuticals Ltd	Family 2	
_	TREATMENT OF BACTERIAL INFECTION		23/00/2019		- " -	
Germany	COPOLYMER AND METHOD FOR TREATMENT OF BACTERIAL INFECTION	Granted	28/08/2019	Recce Pharmaceuticals Ltd	Family 2	
Italy	COPOLYMER AND METHOD FOR	Granted	28/08/2019	Recce Pharmaceuticals Ltd	Family 2	
	TREATMENT OF BACTERIAL INFECTION		20/00/2013			
Japan	COPOLYMER AND METHOD FOR TREATMENT OF BACTERIAL INFECTION	Granted	25/10/2019	Recce Pharmaceuticals Ltd	Family 2	
Spain	COPOLYMER AND METHOD FOR	Granted		Recce Pharmaceuticals Ltd	Family 2	
opu	TREATMENT OF BACTERIAL INFECTION	oranio a	28/08/2019	Treese Friammacouncia Eta		
Sweden	COPOLYMER AND METHOD FOR	Granted	28/08/2019	Recce Pharmaceuticals Ltd	Family 2	
UK	TREATMENT OF BACTERIAL INFECTION COPOLYMER AND METHOD FOR	0		Recce Pharmaceuticals Ltd	Family 2	
UK	TREATMENT OF BACTERIAL INFECTION	Granted	28/08/2019	Recce Pharmaceulicals Liu	Family 2	
USA	COPOLYMER AND METHOD FOR	Granted	4010010040	Recce Pharmaceuticals Ltd	Family 2	
	TREATMENT OF BACTERIAL INFECTION		12/03/2019			
Australia	ANTI-VIRUS AGENT AND METHOD	Accepted		Recce Pharmaceuticals Ltd	Family 3	
China	FOR TREATMENT OF VIRAL INFECTION ANTI-VIRUS AGENT AND METHOD	Granted		Recce Pharmaceuticals Ltd	Family 3	
China	FOR TREATMENT OF VIRAL INFECTION	Granted	22/06/2021	Recce Pharmaceuticals Ltd	Family 3	
France	ANTI-VIRUS AGENT AND METHOD	Granted	04/04/0004	Recce Pharmaceuticals Ltd	Family 3	
	FOR TREATMENT OF VIRAL INFECTION		21/04/2021			
Germany	ANTI-VIRUS AGENT AND METHOD	Granted	21/04/2021	Recce Pharmaceuticals Ltd	Family 3	
	FOR TREATMENT OF VIRAL INFECTION	0		D Dh	Family 0	
Hong Kong	ANTI-VIRUS AGENT AND METHOD FOR TREATMENT OF VIRAL INFECTION	Granted 25/02/2022		Recce Pharmaceuticals Ltd	Family 3	
Italy	ANTI-VIRUS AGENT AND METHOD	Granted		Recce Pharmaceuticals Ltd	Family 3	
	FOR TREATMENT OF VIRAL INFECTION	0.0.1100	21/04/2021		. animy 5	
Japan	ANTI-VIRUS AGENT AND METHOD	Granted	18/12/2020	Recce Pharmaceuticals Ltd	Family 3	
	FOR TREATMENT OF VIRAL INFECTION		10/12/2020			
Spain	ANTI-VIRUS AGENT AND METHOD	Granted	21/04/2021	Recce Pharmaceuticals Ltd	Family 3	
Sweden	FOR TREATMENT OF VIRAL INFECTION ANTI-VIRUS AGENT AND METHOD	Granted		Recce Pharmaceuticals Ltd	Family 2	
	FOR TREATMENT OF VIRAL INFECTION	Granted	21/04/2021	Recce Pharmaceuticals Ltd	Family 3	
United	ANTI-VIRUS AGENT AND METHOD	Granted		Recce Pharmaceuticals Ltd	Family 3	
Kingdom	FOR TREATMENT OF VIRAL INFECTION		21/04/2021		2, 0	
	ANTI-VIRUS AGENT AND METHOD	Granted	00/00/00004	Recce Pharmaceuticals Ltd	Family 3	
USA						
USA	FOR TREATMENT OF VIRAL INFECTION ANTI-VIRUS AGENT AND METHOD	Filed	29/06/2021			

In-house Manufacturing Capabilities

Manufacturing facility in Sydney's Macquarie Park

- Raw materials plentiful and cheap few \$/Kg
- No expensive waste 99.9% product yield
- Automated manufacture process taking approx. 1 hour
- 500 doses per fully automated run
- Quality and Quantity demonstrated capability to support present and future human clinical trials.
- Facility built to pharmaceutical specification.
- Packaging and labelling to international standards

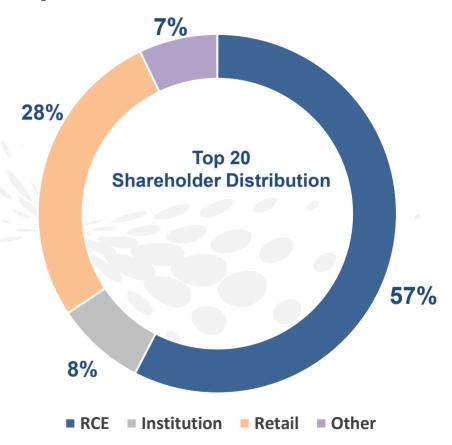






Recce Pharmaceuticals Ltd – Capital Structure

Snapshot			
Tickers	ASX: RCE , FSE: R9Q		
Market Cap (approx.) Priced at AUD \$0.572/share	AUD \$102 million		
Cash and deposits* 30 January 2023	AUD \$8.05 million**		
Outstanding shares	178.18 million		
Average daily volume 3 months	57.6k		
Debt	Nil		
**Includes cash balance of \$A1.84m and A\$6.21m from R&D rebate			





Upcoming Clinical Milestones

- In-vivo pre-clinical
 - Pre-Sepsis UTI Models in Rats ✓
- Phase I clinical trials
 - R327 I.V. Single Dose, Safety/Tolerability/PK study in healthy subjects ✓
- Phase II UTI clinical trial (Pre-Sepsis)
 - Single (as now completed Phase I) efficacy study Q1 2023
 - Multiple-dose treatment of UTIs complicated/resistant/chronic/etc. H1 2023
- Phase Ib/IIa Sepsis clinical trial
 - R327 I.V. Multiple Dose, Safety/Tolerability/PK study in healthy subjects (First patient dosing H1 2023)
 - Multiple-Dose efficacy study in urosepsis* (sepsis derived from UTI infections) efficacy signal
- Phase II Diabetic Foot Ulcer (DFU) clinical trial
 - R327 as a spray-on (topical) broad-spectrum antibiotic for mild skin and soft tissue
 DFU (First patient dosing expected Q1 2023)



Michele Dilizia Scientific Strategy Update





Summary



Proprietary new class of anti-infectives against bacteria and viruses, protected by Composition of Matter Patent.



Fast development plans initially targeting: **Sepsis**, **UTI**, **Burn wounds**, **Diabetic Foot Ulcers**, **COVID-19** and a suite of pre-clinical indications.



Strong pre-clinical data package demonstrating **high bactericidal activity** combined with **very good safety** at expected human therapeutic range.



State of the Art manufacturing capacities ensuring highly attractive manufacturing costs and scalability.



Multiple Phase I, Phase II and Phase III clinical programs, addressing unmet medical needs



Thank you

James Graham

Managing Director and Chief Executive Officer Recce Pharmaceuticals Ltd ASX:RCE; FSE:R9Q

% +61 2 9256 2572

